

gaattcatctgtcgactgtaccacgggaggttccccggagaaggatcctgcagccccgagt	60
cccgaggataaagcttggggtcatcctccttccctggatcactccacagtcctcaggct	120
tccccaatccaggggactcggcgcggacgctgtatggacgacatttttcaactcagtgct	180
CGGAGGGCAACGAGTCGCCGTTCCGCCCTGTGGCTGGACAACACGGAGAACGACCTCAAC	8
R E G N A V A V R L W L D N T E N D L N	240
CAGGGGACGATCATGGCTTCTCCCCCTTGCACCTGGCCCTGCCGAGAGGCCGCTCTGCT	28
Q G D D H G F S P L H W A C R E G R S A	300
GTGGTTGAGATGTTGATCATCGGGGGCAGCGATCAATGTAATGAACCGTGGGGATGAC	48
V V E M L I M R G A R I N V M N R G D D	360
ACCCCCCTGCATCTGGCAGCCAGTCATGGACACCCGTGATATTGTACAGAAGCTATTGCAG	68
T P L H L A A S H G H R D I V Q K L L Q	420
TACAAGGCAGACATCAATGCAGTGAATGAACACGGGAATGTGCCCCCTGCACCTATGCCCTGT	88
Y K A D I N A V N E H G N V P L H Y A C	480
TTTTTGGGGCCAAGATCAAGTGGCAGAGGACCTGGTGGCAAAATGGGGCCCTTGTTCAGCATC	108
F W G Q D Q V A E D L V A N G A L V S I	540
TGTAACAAGTATGGAGAGATGCCCTGTGGACAAAGCCAGGCCCCCTGAGAGAGCTTCTC	128
	600

Fig. 1a (continued on page 2/23)

C	N	K	Y	G	E	M	P	V	D	K	A	K	A	P	L	R	E	L	L	148
CGAGAGCGGCAGAGAGATGGGCCAGAACTCAACCGTATTCATACAGGACACATTC																				148
R	E	R	A	E	K	M	G	Q	N	L	N	R	I	P	Y	K	D	T	F	660
TGGAAGGGACACCCGCACTCGGCCCGAAATGGAACCCCTGAACAACACTCTGGCATT																				660
W	K	G	T	T	R	T	R	P	R	N	G	T	L	N	K	H	S	G	I	168
GACTTCAACAGCTTAACCTTCTGACGAGCTCAACGAGAACTCACTCTGGAGAGCTATGG																				168
D	F	K	Q	L	N	F	L	T	K	L	N	E	N	H	S	G	E	L	W	720
AAGGGCCGCTGGCAGGCAATGACATTTGTCGTGAAGGTGCTGAAGGTTCCGAGACTGGAGT																				720
K	G	R	W	Q	G	N	D	I	V	V	K	V	L	K	V	R	D	W	S	188
ACAAGGAAGACAGGACTTCAATGAAGAGTGTCCCCGGCTCAGGATTTTCTCGCATCCA																				188
T	R	K	S	R	D	F	N	E	E	C	P	R	L	R	I	F	S	H	P	228
AATGTGCTCCAGTGTAGGTGCTGCCAGTCTCCACCTGCTCCTCACTACTCTCATC																				228
N	V	L	P	V	L	G	A	C	Q	S	P	P	A	P	H	P	T	L	I	900
ACACACTGGATGCCGATGGATCCCTCTACAATGTACTACATGAAGGCACCAATTTCGTC																				900
T	H	W	M	P	Y	G	S	L	Y	N	V	L	H	E	G	T	N	F	V	268
GTGGACCAGAGCCAGGCTGTGAAGTTTGCTTTGGACATGGCAAGGGCATGGCCTTCCTA																				268
V	D	Q	S	Q	A	V	K	F	A	L	D	M	A	R	G	M	A	F	L	1020
CACACACTAGAGCCCTCATCCACGACATGCACTCAATAGCCGTAGTGAATGATGAT																				1020
H	T	L	E	P	L	I	P	R	H	A	L	N	S	R	S	V	M	I	D	288
																				288

GAGGACATGACTGCCCGAAATTAGCATGGCTGATGTCAAGTTCTCTTCCAATGTCCTGGT	1200
E D M T A R I S M A D V K F S F Q C P G	348
CGCATGTATGCACCTGCCCTGGGTAGCCCCCGAAGCTCTGCAGAAAGCCCTGAAGACACA	1260
R M Y A P A W V A P E A L Q K K P E D T	368
AACAGACGCTCAGCAGACATGTGGAGTTTGCAGTGTCTTCTGTGGGAACCTGGTGACACGG	1320
N R R S A D M W S F A V L L W E L V T R	388
GAGGTACCCCTTTGCTGACCTCTCCAATATGGAGATTGGAATGAAGGTGGCATTGGAAGGC	1380
E V P F A D L S N M E I G M K V A L E G	408
CTTCGGCCTACCATCCCACCAGGTATTTCCTCATGTGTGTAAAGCTCATGAAGATCTGC	1440
L R P T I P P G I S P H V C K L M K I C	428
ATGAATGAAGACCCCTGCAAGCGACCCAAATTTGACATGATTGTGCCTATCCTTGAGAAG	1500
M N E D P A K R P K F D M I V P I L E K	448
ATGCAGGACAAGtaggactggaaggctccttgccctgaaactccagaggtgtcgggacatggt	1560
M Q D K *	
tgggggaatgcacctccccaaagcagcaggcctctggttgctccccgcctccagtcac	1620
ggtactaccagcctggggtccatccccctcccccatccctaccactgtgcgcaagagg	1680
ggcgggctcagagctttgtcacttgccacatggtgtctcccaacatgggagggtcagcc	1740
cgcctgtcacaataaagtttatgaaaaaataaaaaa	1789

		I		II	
Csk		.NMKELKLLQ	TIGKGEFGDV	MLGDYRGN.K	VAVKCIKND
Yes		IPRESLRLEV	KLQGGCFGEV	WMGTWNGTTK	VAIKTLKPGT
Ctrl		IPWCDLNIKE	KIGAGSFGTV	HRAEWHGS.D	VAVKILMEQD
B-raf		IPDGQITVGQ	RIGSGSFGTV	YKKGWHG..D	VAVKMLNVTA
Ilk		IDFKQLNFLT	KLNENHSGEL	WKGRWQGN.D	IVVKVLDKVR
		III		IV	
Csk		LAEASVMTQ	LRHSNLVQLL	GVIVVEE.KGG	LYIVTEYMAK
Yes		..EAQIMKK	LRHDKLVPLY	AVVSEE...P	IYIVTEFMTK
Ctrl		LREVAIMKR	LRHPNIVLFM	CAVTQPP..N	LSIVTEYLSR
B-raf		KNEVGVLRK	TRHVNILLFM	GYSTKP...Q	LAIVTQWCEG
Ilk		NEECPRRLI	FSHPNVLPVL	GACQSPAPH	PTLITHWMPY
				V	
Csk					GSLVDYLRSR
Yes					GSLDDEFLEK
Ctrl					GSLYRLLHKS
B-raf					SSLYHHLHII
Ilk					GSLYNVLHE.
				Vib	
Csk		GRSV.LGGDC	LLKFSLDVCE	AMEYLEGN..	NFVHRDLAA
Yes		EGKF.LKLPQ	LVDMAAQIAD	GMAIYERM..	NYIHRDLRA
Ctrl		GAREQLDERR	RLSMAYDVAK	GMNYLH.NRN	PPIVHRDLKS
B-raf		ETKFEMI..K	LIDIAHQTAQ	GMDYLHAK..	SIHRDLKS
Ilk		GTNFVVDQSQ	AVKFALDMAR	GMAFLH.TLE	PLIPRHALNS

235

283

329

Fig. 1b (continued on page 5/23)

VII

Csk	DNVAKVSDFG	LTK.....EA	SSTQDTGKLP	VKWTAP EAL R	...EKKFSTK
Yes	NLVCKIADFG	LARLIED.NE	YTARQGA KFP	IKWTAP EAL	...YGRFTIK
Ctrl	KYTVKVCDFG	LSRLKAS.TF	LSSKSAAG TP	.EWMAPEVLR	...DEPSNEK
B-raf	DLTVKIGDFG	LATVKS RWSG	SHQFEQLSGS	ILWMAPEVIR	MQDKNPYSFQ
Ilk	DMTARIS...	MADV KFSFQC	PGRM.YA..P	.AWVAPEALQ	KKPEDTNRSS

372

IX

Csk	SDVWSFGILL	WEIYSFGRVP	YPRIP LKD.V	VPRVEKGY..	KMDAPDGCPP
Yes	SDVWSFGILL	TELVT KGRVP	YPGMVNRE.V	LEQVERGY..	RMPCPQGCPE
Ctrl	SDVYSFGVIL	WELAT.LQQP	WGNL.NPAQV	VAAVGFKCK.	RLEIPRNLNP
B-raf	SDVYAFGIVL	YELMT.GQLP	YSNINN RDQI	IFMVGRGYLS	PDLSKVR SNC
Ilk	ADMWSFAVLL	WELVTR.EVP	FADLSNMEIG	MK.VALEGL.	R.TIPPGISP

418

XI

Csk	AVYEV MKN	CWHLDAAMRP	SFLQLREQLE	HIKTHEL
Yes	SLHELMKL	CWKKDPDERP	TFEYIQSFLE
Ctrl	QVAAIIEG	CWTNEPWKRP	SFATIMDLLR	PL.....
B-raf	PKAMKRLMAECL	KKKKRDERP	LFPQILASIE	LLARSLP
Ilk	HVCKLMKI	CMNEDPAKRP	KFDMIVPILE	KMQDK..

451

Fig. 1b

ANKYRIN	-G-TPLH-AA--GH---V--LL--GA--N----
CONSENSUS	A D
ANK1	³³ HGFSPLHWACREGRSAVVEMLIIMRGARINVMNR
ANK2	GDDTPLHLAASHGHRD IVQKL LQYKADINAVNE
ANK3	HGNVPLHYACFWGQDQVAEDLVANGALVSI CNK
ANK4	YGEMPVDKAKAPLRELLRERAEKMGQNLNRI PY ¹⁶⁴

Fig. 1c

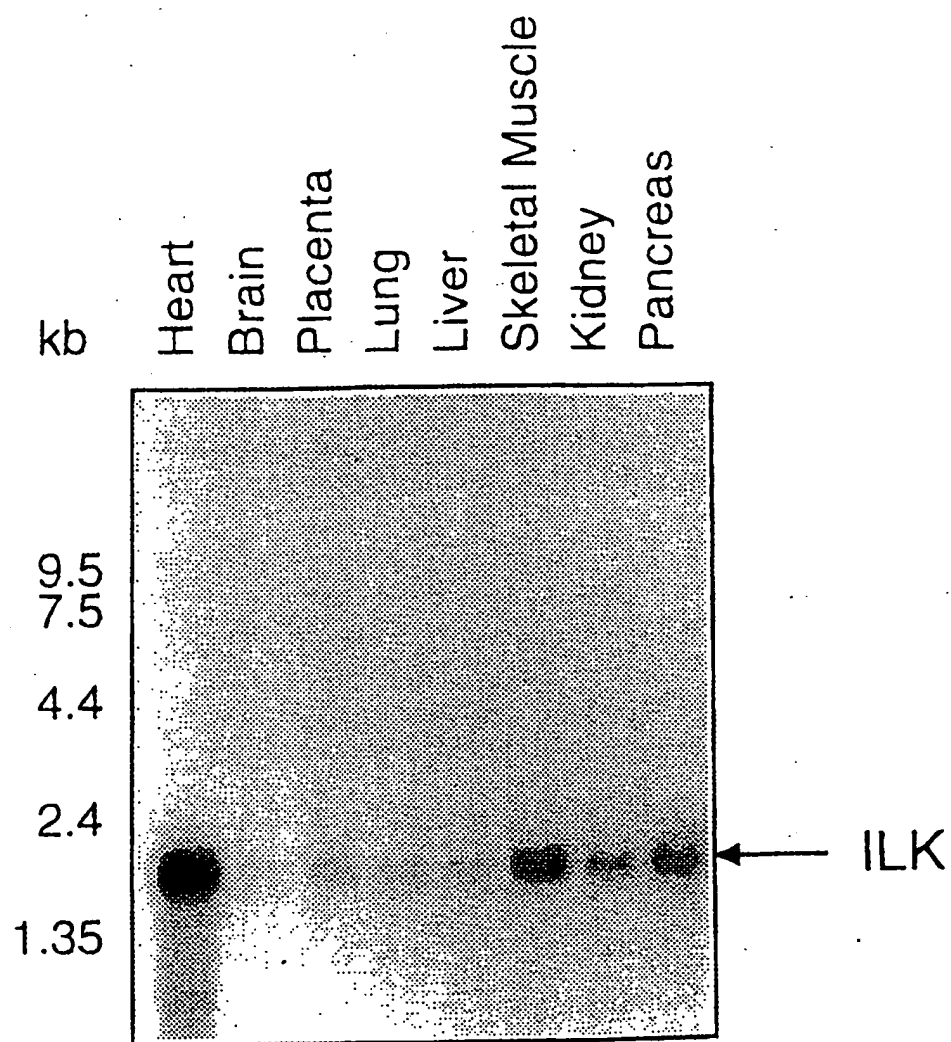


Fig. 1d

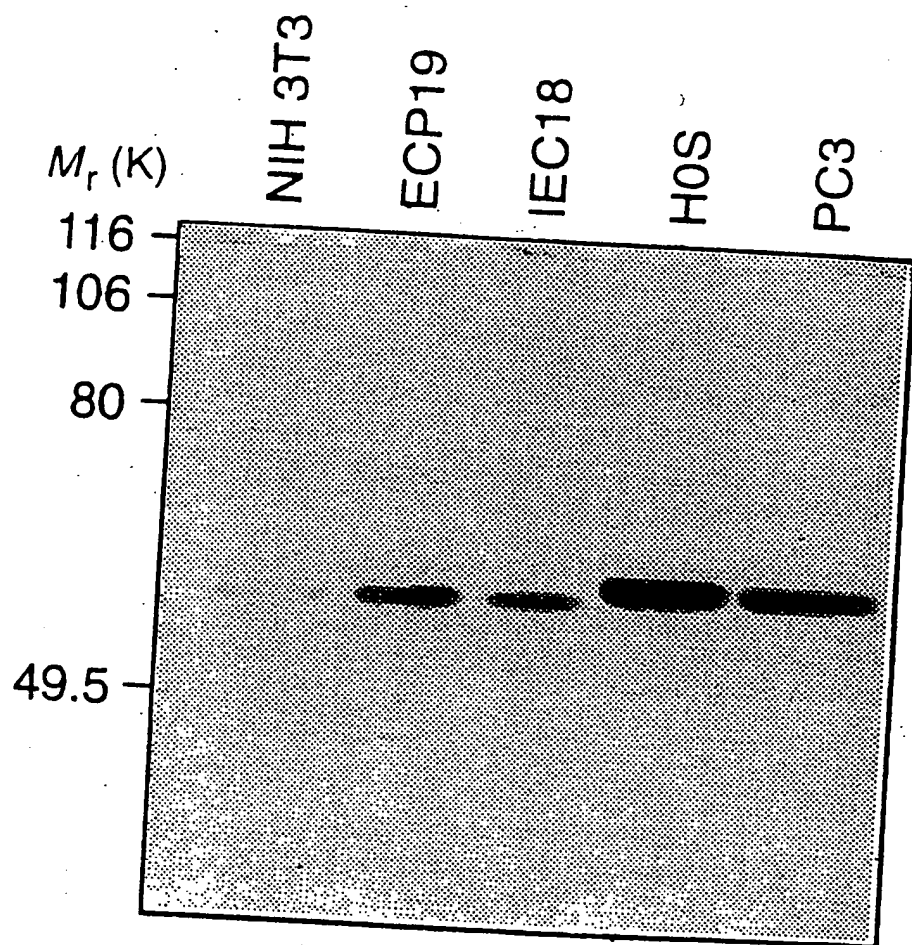


Fig. 1e

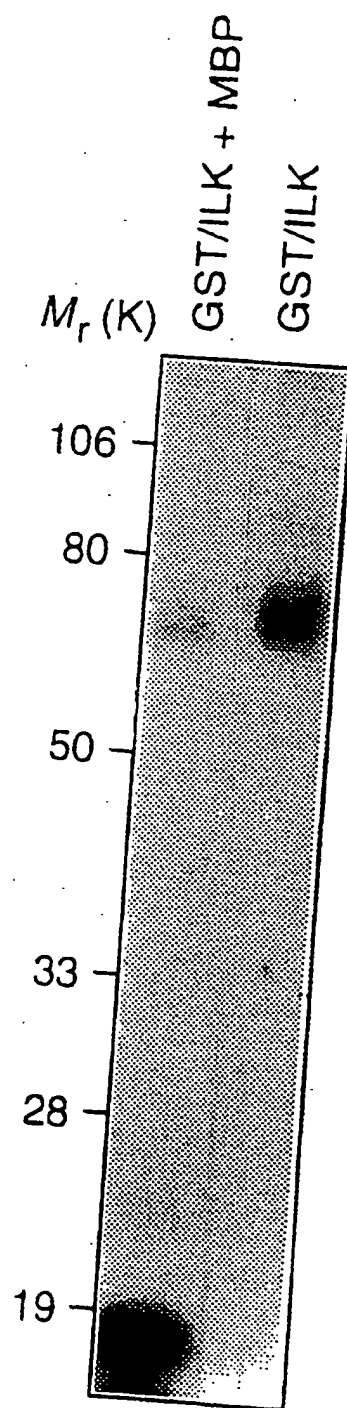


Fig. 2a

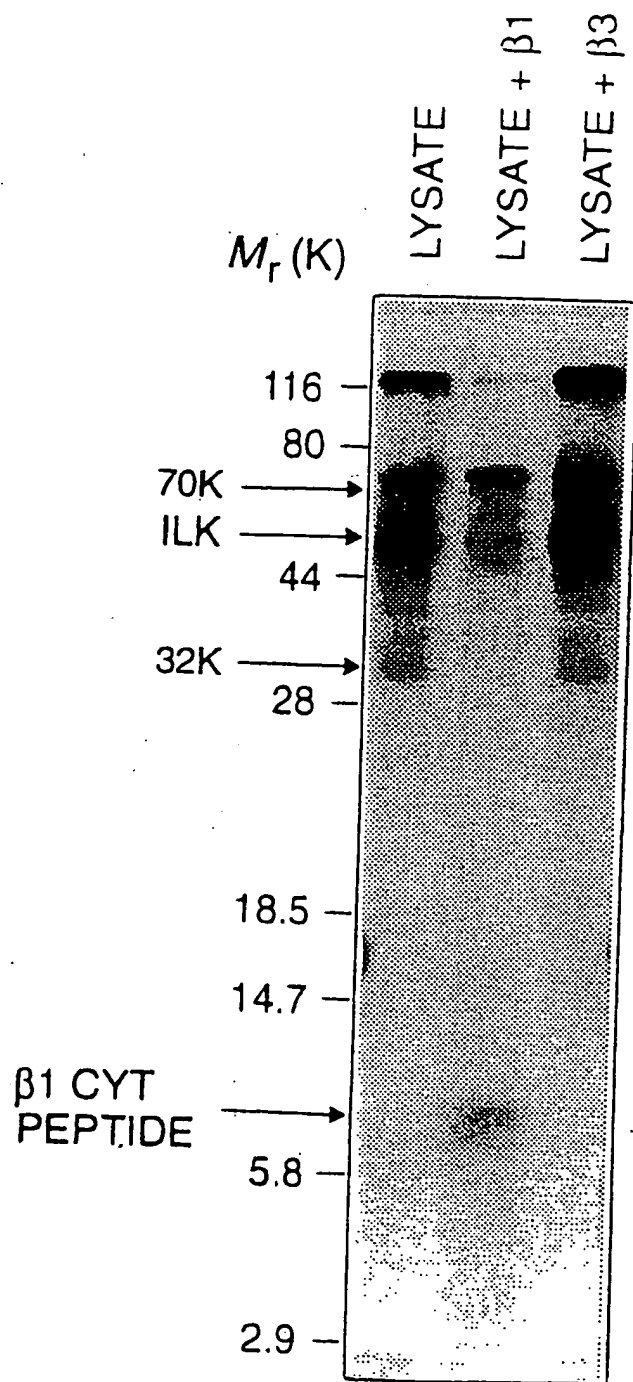


Fig. 2b

102240-40404860

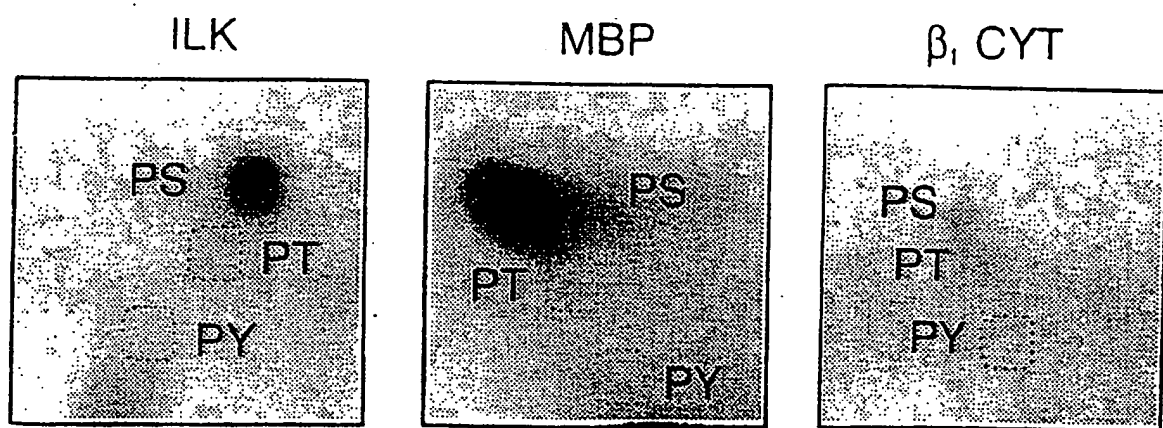


Fig. 2c

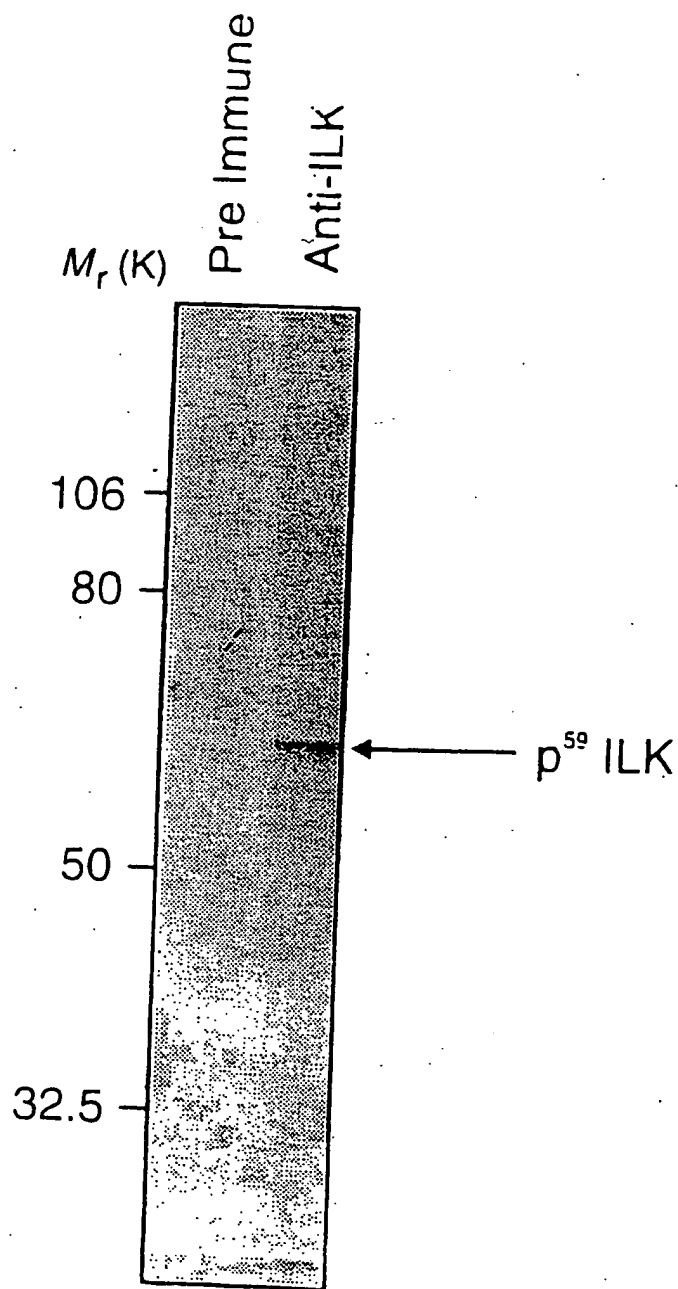


Fig. 3a

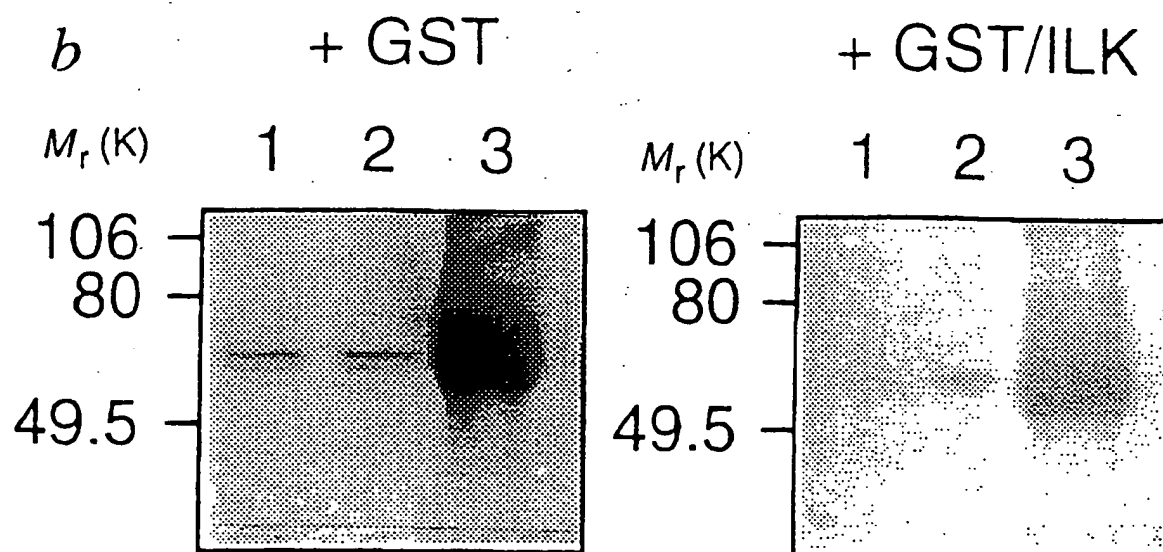


Fig. 3b

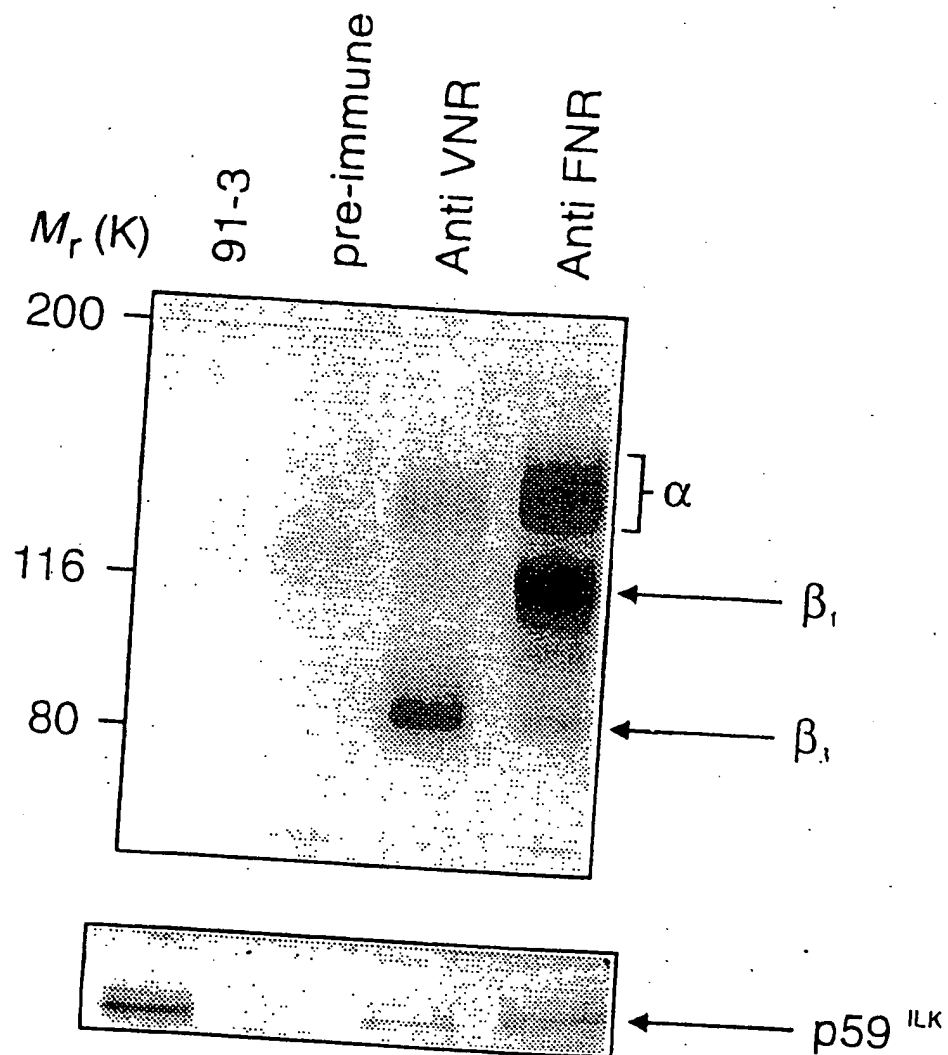


Fig. 3c

Immunoprecipitation: anti $\beta 1$ monoclonal antibodies
 Immunoblot: anti-ILK adsorbed anti-ILK

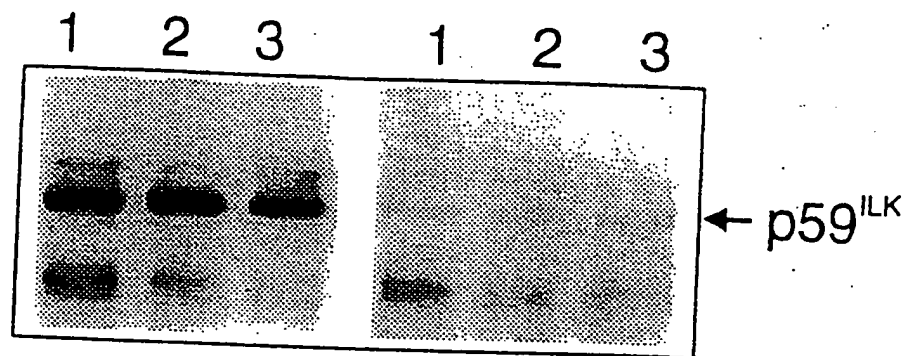


Fig. 3d

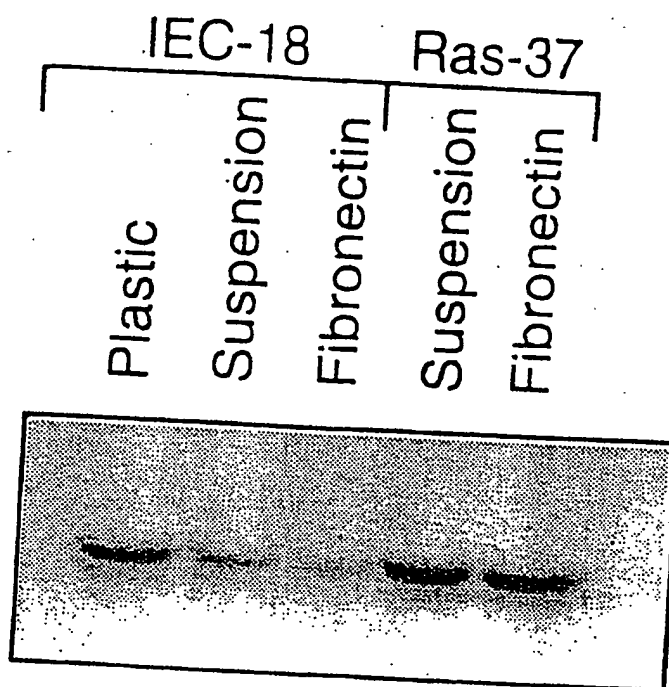


Fig. 4a

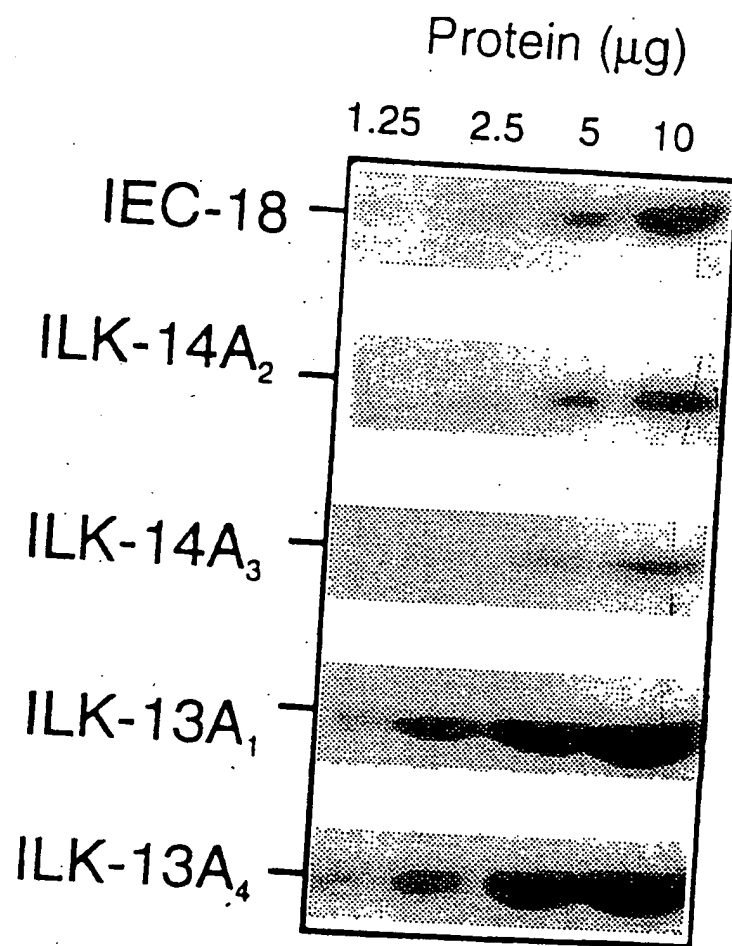


Fig. 4b

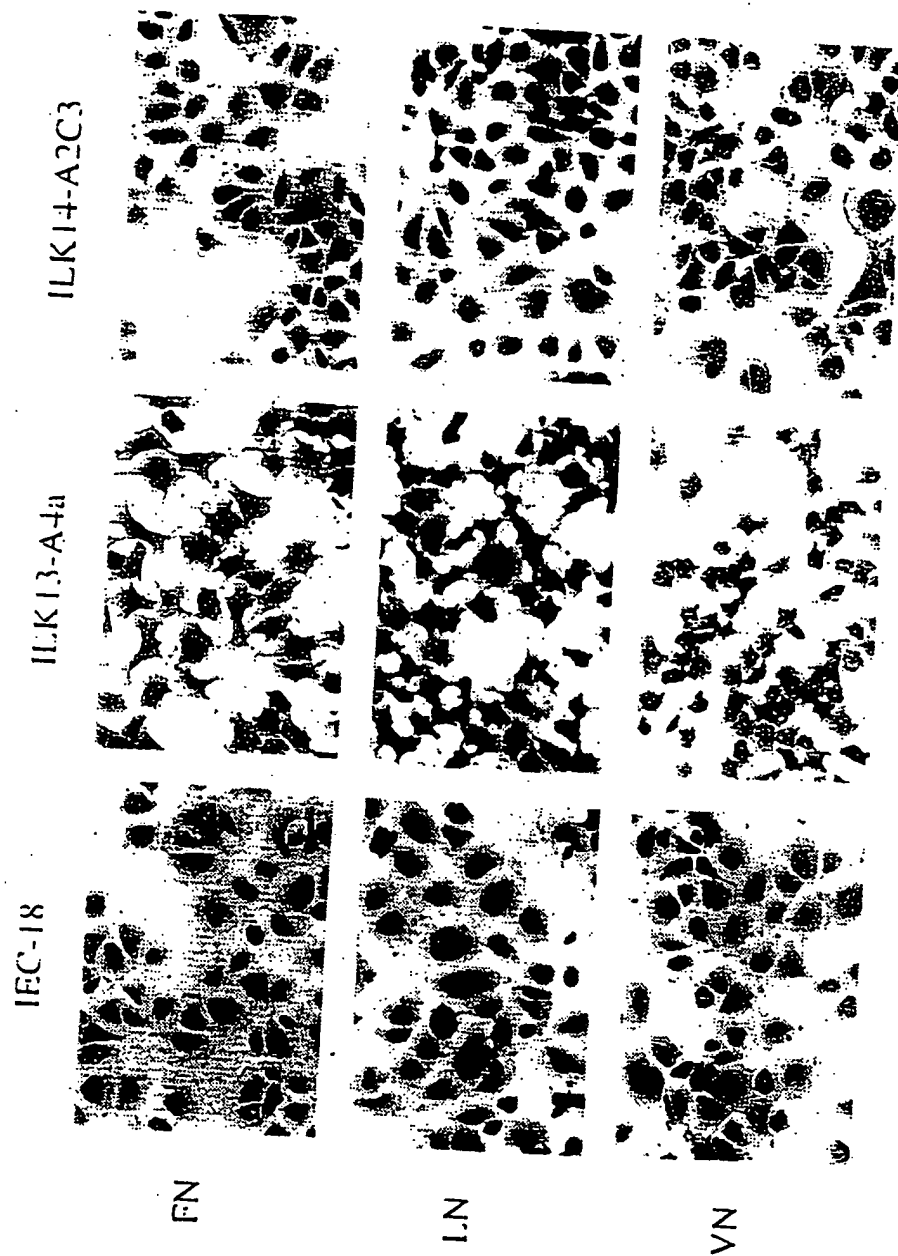


Fig. 4c

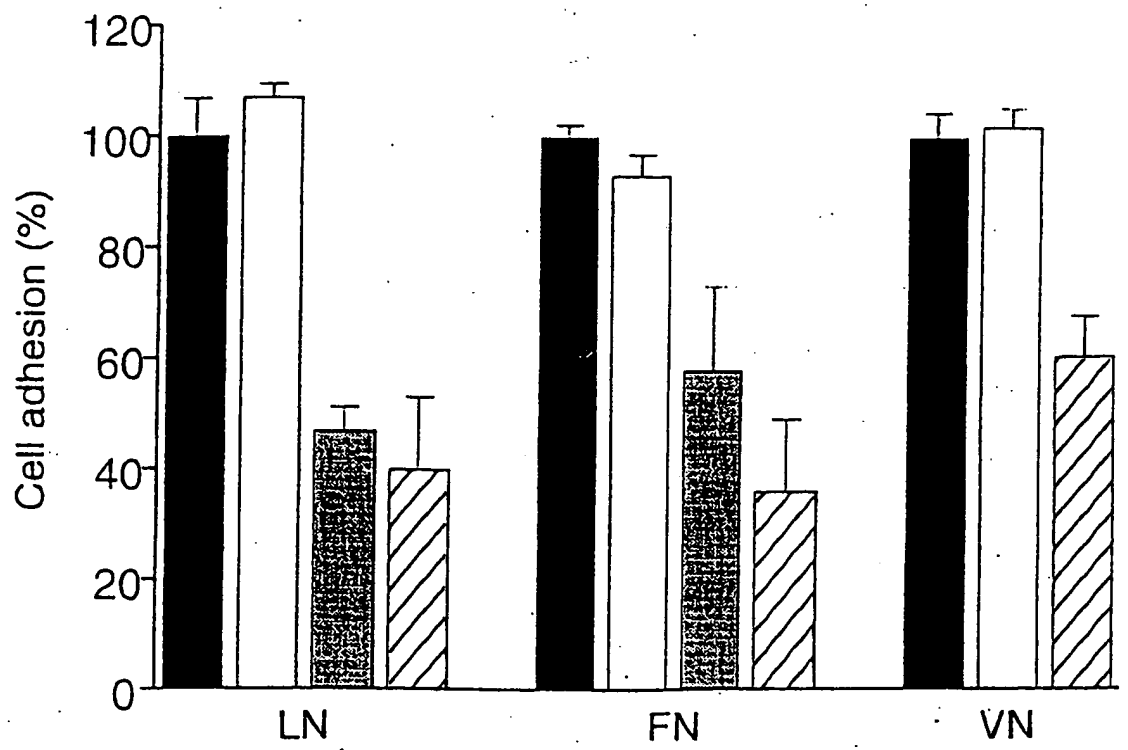


Fig. 4d

102210-10201860

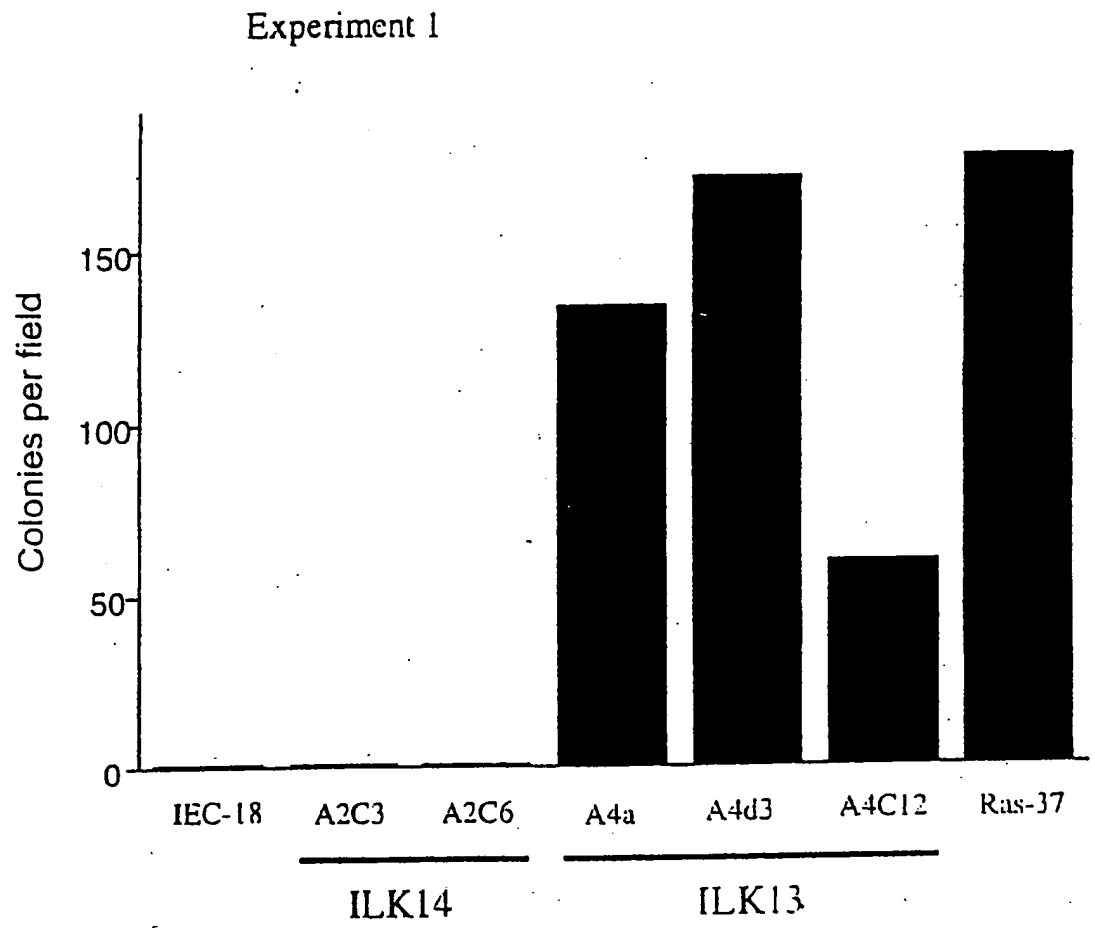


Fig. 4e (continued on page 21/23)

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Experiment 2

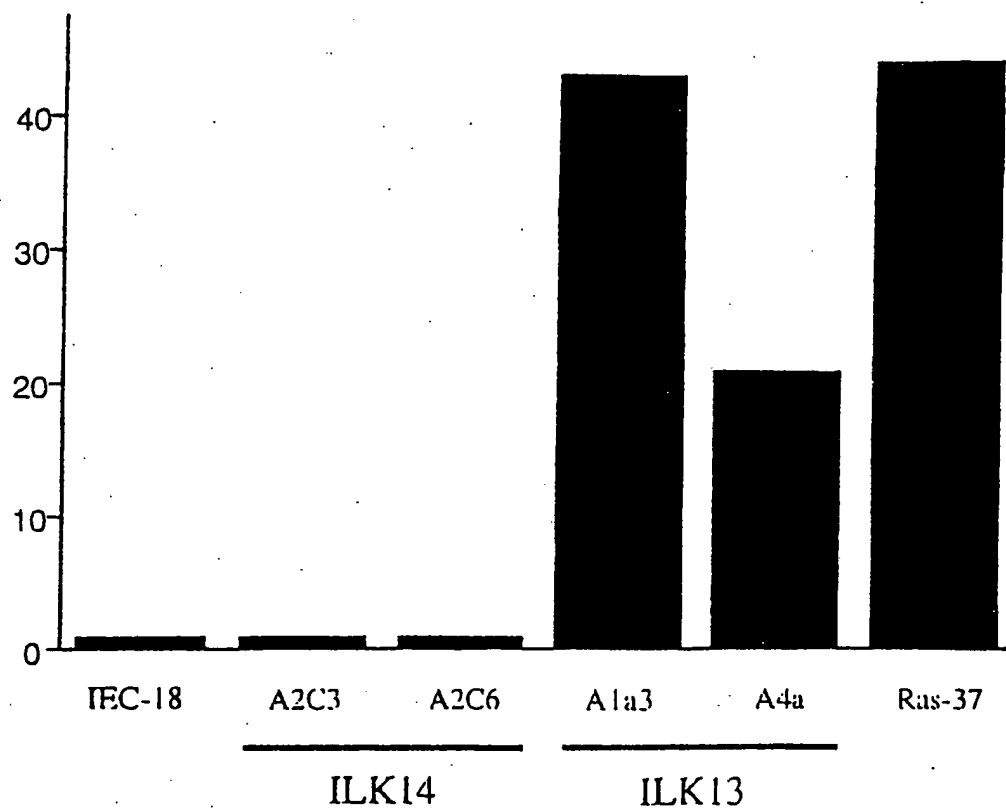


Fig. 4e

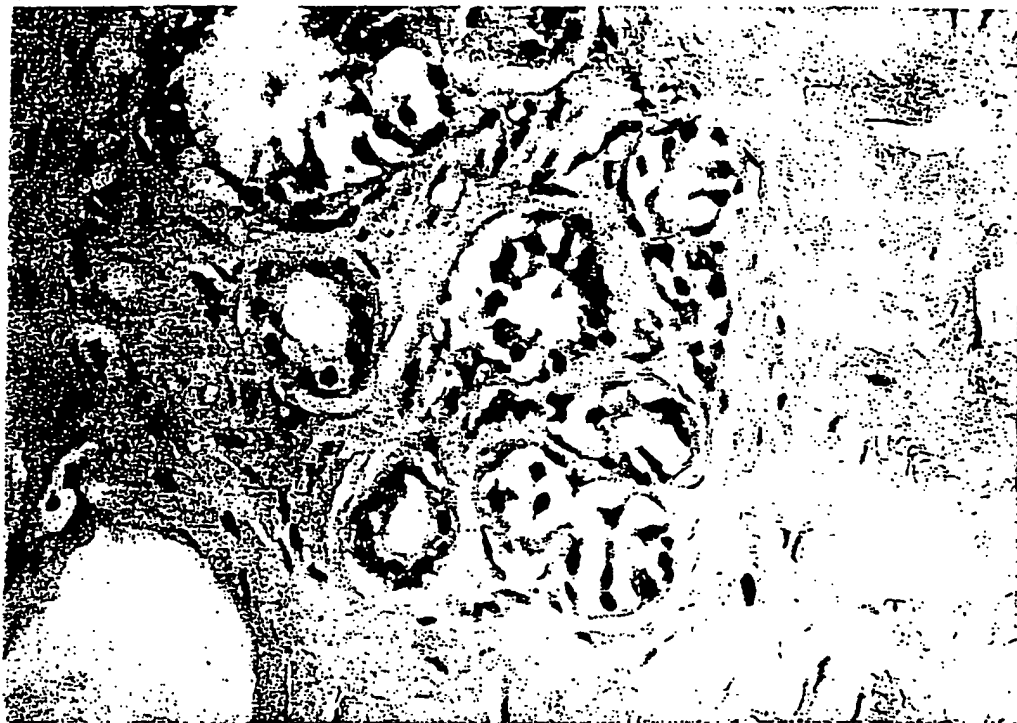


Fig. 5a

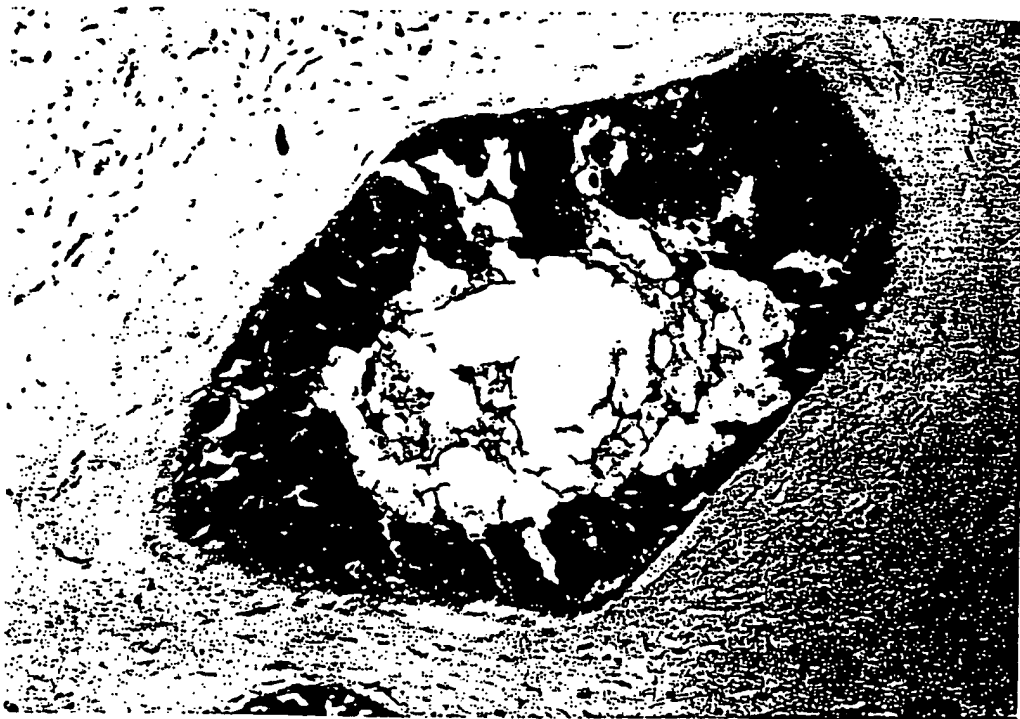


Fig. 5b

FOE2HO" 40204860



Fig. 5c

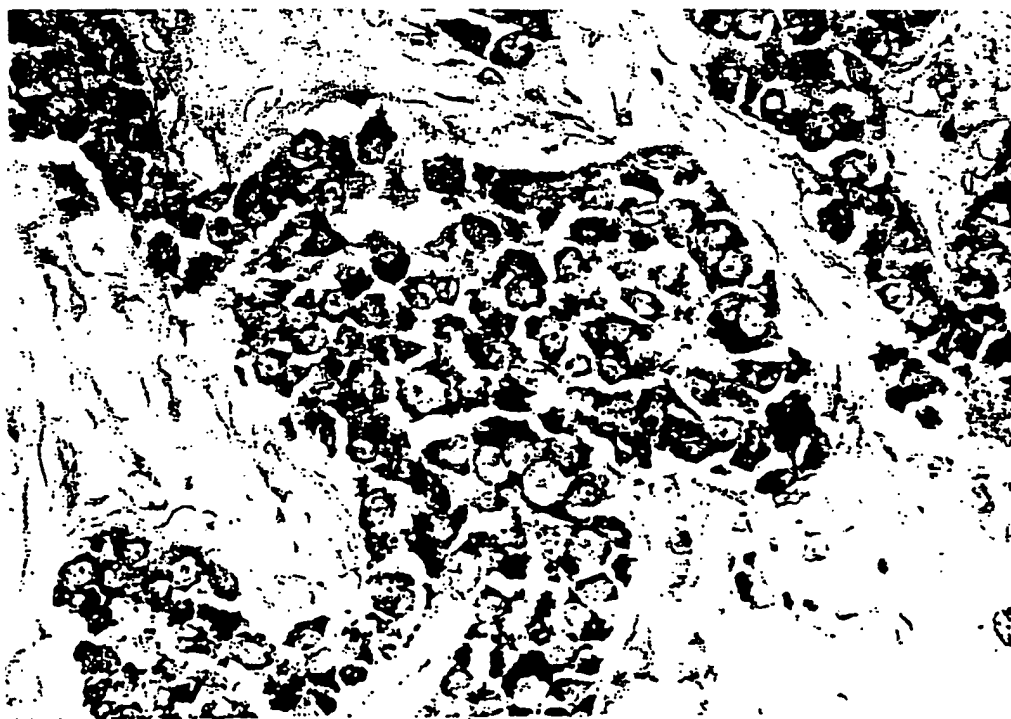


Fig. 5d